

**ABSTRACT OF THE DISCLOSURE.**

A method and apparatus for drilling a bore hole into ice by use of a water-heated hemispherical structure of circular cross-section and predetermined  
5 diameter for sinking a borehole into the ice following and closing a previously formed pilot bore hole of lesser diameter, and, above it, in axial alignment therewith, an azimuthally circumferential gap for spraying a high pressure disk-shaped upwardly deflected jet of water against the circular wall of the bore hole to increase its diameter beyond the predetermined diameter and to form a  
10 smooth bore hole wall surface.